

1-7-02

A

SD6851/S96528

October 22, 2001

Express Mail No.: EL026585619US

ASSISTANT COMMISSIONER FOR PATENTS  
BOX PATENT APPLICATION  
WASHINGTON, D.C. 20231

**UTILITY PATENT APPLICATION TRANSMITTAL**  
**Under 37 CFR 1.53(b)**

jc821 U.S. PTO  
10/03/01  
10/22/01

Transmitted herewith for filing is the patent application of

INVENTOR(S): Patrick G. Xavier, Eric J. Gottlieb, Michael J. McDonald and Fred J. Oppel III

FOR: APPARATUS AND METHOD FOR INTERACTION PHENOMENA  
WITH WORLD MODULES IN DATA-FLOW-BASED SIMULATION

**I. APPLICATION ELEMENTS**

1. ☒ Fee Transmittal Form (original + duplicate)
2. ☒ Specification  
Total Pages 36
3. ☒ Drawings  
Total Sheets 7
4. ☒ Oath or Declaration (with Power of Attorney) Total Pages 3
  - a. ☒ Newly Executed
  - b. ☐ Copy from Prior Application  
(Continuation or Divisional)

☐ Deletion of Inventors  
Signed Statement Attached Deleting Inventor(s) named in  
prior Application. 37 CFR 1.63(d)(2) and 1.33(b).
5. ☐ Incorporation by Reference (if Box 4b is checked). The entire  
disclosure of the prior application(s) from which a copy of the  
Oath or Declaration is supplied under Box 4b, is considered as  
being part of the disclosure of the accompanying application and  
is hereby incorporated by reference therein.
6. ☐ Microfiche Computer Program (Appendix)

## II. ACCOMPANYING APPLICATION PARTS

7. ☐ Assignment Papers (cover sheet and document(s))
8. ☐ 37 CFR 3.73(b) Statement (where there is an assignee) ☒ Power of Attorney (with the Declaration)
9. ☐ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS Citations
10. ☐ Preliminary Amendment
11. ☒ Return Receipt Postcard (Itemized)
12. ☒ Other – Nonpublication Request

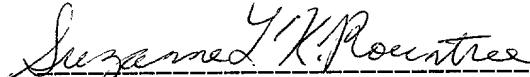
## III. IF A CONTINUING APPLICATION

☐ Continuation ☐ Divisional ☐ Continuation-in-Part (CIP)  
of prior application No. \_\_\_\_/\_\_\_\_\_

## IV. CORRESPONDENCE ADDRESS

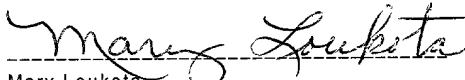
Sandia National Laboratories  
P. O. Box 5800 - MS-0161  
Albuquerque, New Mexico 87185-0161  
Phone: (505) 845-8124  
FAX: (505) 844-1218

Dated: 10-19-2001

  
Suzanne L. K. Rountree  
Reg. No. 47,910  
Sandia National Laboratories  
Patent & Licensing Center, 11500  
P. O. Box 5800 / MS 0161  
Albuquerque, NM 87185-0161  
Telephone: (505) 844-4379

### CERTIFICATION UNDER 37 CFR 1.10

I hereby certify that this New Application Transmittal and the documents referred to as enclosed therein are being deposited with the U. S. Postal Service on, 10/22/01, in an envelope as "Express Mail Post Office to Addressee" Mailing Label Number EL026585619 addressed to the: Assistant Commissioner for Patents, Box Patent Application, Washington, D.C. 20231.

  
Mary Loukota

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<p><b>NONPUBLICATION REQUEST UNDER 35 U.S.C. 122(b)(2)(B)(i)</b></p>	First Named Inventor		Xavier, et al
	Title	Apparatus and Method for Interaction Phenomena with World Modules in Data-Flow-Based Simulation	
	Attv Docket Number		SD6851/S96528

I hereby certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing.

I hereby request that the attached application not be published under 35 U.S.C. 122(b).

10-19-2001  
Date

Suzanne J.K. Reintree  
Signature 47,910

Suzanne L. K. Rountree  
Typed or printed name

This request must be signed in compliance with 37 CFR 1.33(b) and submitted with the application **upon filing**.

Application may rescind this nonpublication request at any time. If applicant rescinds a request that an application not be published under 35 U.S.C. 122(b), the application will be scheduled for publication at eighteen months from the earliest claimed filing date for which a benefit is claimed.

If applicant subsequently files an application directed to the invention disclosed in the attached application in another country, or under a multilateral international agreement, that requires publication of applications eighteen months after filing, the applicant **must** notify the United States Patent and Trademark Office of such filing within forty-five (45) days after the date of the filing of such foreign or international application. **Failure to do so will result in abandonment of this application (35 U.S.C. 122(b)(2)(B)(iii)).**

time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231.  
DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents Washington, DC 20231

1003096 40294  
T02207 9604007

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<h1 style="margin: 0;">FEE TRANSMITTAL</h1> <h2 style="margin: 0;">FOR FY 2002</h2> <p style="font-size: small; margin: 5px 0;">Patent fees are subject to annual revision. Small Entity payments <u>must</u> be supported by a small entity statement, Otherwise large entity fees must be paid. See Forms PTO/SB/09-12.</p>		Complete if Known	
		Application Number	
		Filing Date <u>10/22/01</u>	
		First Named Inventor <u>Xavier et al</u>	
		Examiner Name	
Group / Art Unit			
Attorney Docket No. <u>SD6851S96528</u>			
TOTAL AMOUNT OF PAYMENT <b>(\$812.00)</b>			

<h3 style="margin: 0;">METHOD OF PAYMENT (check one)</h3> <p>The Commissioner is hereby authorized to charge</p> <p>1. <input checked="" type="checkbox"/> indicated fees and credit any over payments to:</p> <p>Deposit Account Number <u>19-0131</u></p> <p>Deposit Account Name <u>Sandia National Labs</u></p> <p><input type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17</p> <p>2. Payment Enclosed:</p> <p><input type="checkbox"/> Check <input type="checkbox"/> Money Order <input type="checkbox"/> Other</p>	<h3 style="margin: 0;">FEE CALCULATION (continued)</h3> <h4 style="margin: 0;">3. ADDITIONAL FEES</h4> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Large Fee Code</th> <th>Entity Fee (\$)</th> <th>Small Fee Code</th> <th>Entity Fee (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>105</td><td>130</td><td>205</td><td>65</td><td>Surcharge - late filing fee or oath</td><td></td></tr> <tr><td>127</td><td>50</td><td>227</td><td>25</td><td>Surcharge - late provisional filing fee or cover sheet</td><td></td></tr> <tr><td>139</td><td>130</td><td>139</td><td>130</td><td>Non-English specification</td><td></td></tr> <tr><td>147</td><td>2,520</td><td>147</td><td>2,520</td><td>For filing a request for reexamination</td><td></td></tr> <tr><td>112</td><td>920*</td><td>112</td><td>920*</td><td>Requesting publication of SIR prior to Examiner action</td><td></td></tr> <tr><td>113</td><td>1,840</td><td>11</td><td>1,840</td><td>Requesting publication of SIR after Examiner</td><td></td></tr> <tr><td>115</td><td>110</td><td>215</td><td>55</td><td>Extension for reply within first month</td><td></td></tr> <tr><td>116</td><td>400</td><td>216</td><td>200</td><td>Extension for reply within second month</td><td></td></tr> <tr><td>117</td><td>920</td><td>217</td><td>460</td><td>Extension for reply within third month</td><td></td></tr> <tr><td>118</td><td>1,440</td><td>218</td><td>720</td><td>Extension for reply within fourth month</td><td></td></tr> <tr><td>128</td><td>1,960</td><td>228</td><td>980</td><td>Extension for reply within fifth month</td><td></td></tr> <tr><td>119</td><td>310</td><td>219</td><td>155</td><td>Notice of Appeal</td><td></td></tr> <tr><td>120</td><td>310</td><td>220</td><td>155</td><td>Filing a brief in support of an appeal</td><td></td></tr> <tr><td>121</td><td>270</td><td>221</td><td>135</td><td>Request for oral hearing</td><td></td></tr> <tr><td>138</td><td>1,510</td><td>138</td><td>1,510</td><td>Petition to institute a public use proceeding</td><td></td></tr> <tr><td>140</td><td>110</td><td>240</td><td>55</td><td>Petition to revive - unavoidable</td><td></td></tr> <tr><td>141</td><td>1,240</td><td>241</td><td>620</td><td>Petition to revive - unintentional</td><td></td></tr> <tr><td>142</td><td>1,240</td><td>242</td><td>620</td><td>Utility issue fee (or reissue)</td><td></td></tr> <tr><td>143</td><td>440</td><td>243</td><td>220</td><td>Design issue fee</td><td></td></tr> <tr><td>144</td><td>600</td><td>244</td><td>300</td><td>Plant issue fee</td><td></td></tr> <tr><td>122</td><td>130</td><td>122</td><td>130</td><td>Petitions to the Commissioner</td><td></td></tr> <tr><td>123</td><td>50</td><td>123</td><td>50</td><td>Petitions related to provisional applications</td><td></td></tr> <tr><td>126</td><td>240</td><td>126</td><td>240</td><td>Submission of Information Disclosure Stmt</td><td></td></tr> <tr><td>581</td><td>40</td><td>581</td><td>40</td><td>Recording each patent assignment per property (times number of properties)</td><td></td></tr> <tr><td>146</td><td>710</td><td>246</td><td>355</td><td>Filing a submission after final refection (37 CFR 1.129(a))</td><td></td></tr> <tr><td>149</td><td>710</td><td>249</td><td>355</td><td>For each additional invention to be examined (37 CFR 1.129(b))</td><td></td></tr> <tr><td colspan="5">Other fee (specify) _____</td><td></td></tr> <tr><td colspan="5">Other fee (specify) _____</td><td></td></tr> <tr> <td colspan="5" style="text-align: right;">*Reduced by Basic Filing Fee Paid</td> <td> <b>SUBTOTAL (3) (\$)</b> </td> </tr> </tbody> </table>	Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid	105	130	205	65	Surcharge - late filing fee or oath		127	50	227	25	Surcharge - late provisional filing fee or cover sheet		139	130	139	130	Non-English specification		147	2,520	147	2,520	For filing a request for reexamination		112	920*	112	920*	Requesting publication of SIR prior to Examiner action		113	1,840	11	1,840	Requesting publication of SIR after Examiner		115	110	215	55	Extension for reply within first month		116	400	216	200	Extension for reply within second month		117	920	217	460	Extension for reply within third month		118	1,440	218	720	Extension for reply within fourth month		128	1,960	228	980	Extension for reply within fifth month		119	310	219	155	Notice of Appeal		120	310	220	155	Filing a brief in support of an appeal		121	270	221	135	Request for oral hearing		138	1,510	138	1,510	Petition to institute a public use proceeding		140	110	240	55	Petition to revive - unavoidable		141	1,240	241	620	Petition to revive - unintentional		142	1,240	242	620	Utility issue fee (or reissue)		143	440	243	220	Design issue fee		144	600	244	300	Plant issue fee		122	130	122	130	Petitions to the Commissioner		123	50	123	50	Petitions related to provisional applications		126	240	126	240	Submission of Information Disclosure Stmt		581	40	581	40	Recording each patent assignment per property (times number of properties)		146	710	246	355	Filing a submission after final refection (37 CFR 1.129(a))		149	710	249	355	For each additional invention to be examined (37 CFR 1.129(b))		Other fee (specify) _____						Other fee (specify) _____						*Reduced by Basic Filing Fee Paid					<b>SUBTOTAL (3) (\$)</b>
Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid																																																																																																																																																																																
105	130	205	65	Surcharge - late filing fee or oath																																																																																																																																																																																	
127	50	227	25	Surcharge - late provisional filing fee or cover sheet																																																																																																																																																																																	
139	130	139	130	Non-English specification																																																																																																																																																																																	
147	2,520	147	2,520	For filing a request for reexamination																																																																																																																																																																																	
112	920*	112	920*	Requesting publication of SIR prior to Examiner action																																																																																																																																																																																	
113	1,840	11	1,840	Requesting publication of SIR after Examiner																																																																																																																																																																																	
115	110	215	55	Extension for reply within first month																																																																																																																																																																																	
116	400	216	200	Extension for reply within second month																																																																																																																																																																																	
117	920	217	460	Extension for reply within third month																																																																																																																																																																																	
118	1,440	218	720	Extension for reply within fourth month																																																																																																																																																																																	
128	1,960	228	980	Extension for reply within fifth month																																																																																																																																																																																	
119	310	219	155	Notice of Appeal																																																																																																																																																																																	
120	310	220	155	Filing a brief in support of an appeal																																																																																																																																																																																	
121	270	221	135	Request for oral hearing																																																																																																																																																																																	
138	1,510	138	1,510	Petition to institute a public use proceeding																																																																																																																																																																																	
140	110	240	55	Petition to revive - unavoidable																																																																																																																																																																																	
141	1,240	241	620	Petition to revive - unintentional																																																																																																																																																																																	
142	1,240	242	620	Utility issue fee (or reissue)																																																																																																																																																																																	
143	440	243	220	Design issue fee																																																																																																																																																																																	
144	600	244	300	Plant issue fee																																																																																																																																																																																	
122	130	122	130	Petitions to the Commissioner																																																																																																																																																																																	
123	50	123	50	Petitions related to provisional applications																																																																																																																																																																																	
126	240	126	240	Submission of Information Disclosure Stmt																																																																																																																																																																																	
581	40	581	40	Recording each patent assignment per property (times number of properties)																																																																																																																																																																																	
146	710	246	355	Filing a submission after final refection (37 CFR 1.129(a))																																																																																																																																																																																	
149	710	249	355	For each additional invention to be examined (37 CFR 1.129(b))																																																																																																																																																																																	
Other fee (specify) _____																																																																																																																																																																																					
Other fee (specify) _____																																																																																																																																																																																					
*Reduced by Basic Filing Fee Paid					<b>SUBTOTAL (3) (\$)</b>																																																																																																																																																																																

### FEE CALCULATION

#### 1. BASIC FILING FEE

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid
101	740	201	370	Utility filing fee	740.
106	330	206	165	Design filing fee	
107	510	207	255	Plant filing fee	
108	740	208	370	Reissue filing fee	
114	160	214	80	Provisional filing fee	
SUBTOTAL (1)					<b>\$ 740.00</b>

#### 2. EXTRA CLAIM FEES

Extra Claims		Fee from below	Fee Paid
Total Claims	<u>24</u>	-20**= <u>4</u> X <u>18</u> = <u>72.00</u>	
Independent Claims	<u>3</u>	- 3**= <u>0</u> X <u>84</u> = <u>0</u>	
Multiple Dependent			

\*\*or number previously paid, if greater; For Reissues, see below

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description
103	18	203	9	Claims in excess of 20
102	84	202	42	Independent claims in excess of 3
104	280	204	140	Multiple dependent claim, if not paid
109	84	209	42	**Reissue independent claims over original patent
110	18	210	9	**Reissue claims in excess of 20 and over original patent
SUBTOTAL (2) <b>(\$72.00)</b>				

SUBMITTED BY				Complete (if applicable)	
Typed or Printed Name		<u>Suzanne L. K. Rountree</u>		Reg. Number	<u>47,910</u>
Signature <u>Suzanne L. K. Rountree</u>		Date <u>10-19-2001</u>	Deposit Account User ID		<u>19-0131</u>

Burden Hour Statement This form is estimated to take 0.2 hours to complete Time will vary depending upon the needs of the individual case Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231 DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS SEND TO Assistant Commissioner for Patents, Washington, DC 20231